



<b>FORM PTO-1449</b>  <b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)				<b>ATTY. DOCKET NO.</b> I-1-0065.10US		<b>SERIAL NO.</b> 10/663,240	
<b>APPLICANT</b> Bolgiano et al.							
<b>FILING DATE</b> September 16, 2003					<b>GROUP</b> 2616		

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	•	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RW/	•	5,177,765	1/5/1993	Holland et al.			
↓	•	5,506,863	4/9/1996	Meidan et al.			
↓	•	5,553,076	9/3/1996	Behtash et al.			
↓	•	5,761,196	6/2/1998	Ayerst et al.			

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		

 EXAMINER  
 /Robert Wilson/

 DATE CONSIDERED  
 06/26/2007

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RW/		4,081,748	03/1978	Batz			
		4,099,121	07/1978	Fang			
		4,128,809	12/1978	Kage			
		4,426,712	01/1984	Gorski-Popiel			
		4,530,087	07/1985	Yamamoto			
		4,599,734	07/1986	Yamamoto			
		4,644,351	02/1987	Zabarshy			
		4,675,863	06/1987	Paneth et al.			
		4,727,590	02/1988	Kawano et al.			
		4,780,885	10/1988	Paul et al.			
		4,799,252	01/1989	Eizenhoffer et al.			
		4,901,307	02/1990	Gilhousen et al.			
		5,031,193	07/1991	Atkinson et al.			
		5,043,736	08/1991	Darnell et al.			
		5,046,066	09/1991	Messenger			
		5,058,200	10/1991	Dornstetter et al.			
		5,081,643	01/1992	Schilling			
		5,088,108	02/1992	Uddenfeldt et al.			
		5,097,484	03/1992	Akaiwa			
		5,101,501	03/1992	Gilhousen et al.			
		5,128,925	07/1992	Dornstetter et al.			
		5,103,459	04/1992	Gilhousen et al.			
		5,109,390	04/1992	Gilhousen et al.			
		5,155,689	10/1992	Wortham			
		5,166,951	11/1992	Schilling			
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	5,208,756	05/1993	Song				
	5,218,367	06/1993	Sheffer et al.				
	5,218,618	06/1993	Sagey				
	5,223,844	06/1993	Mansell et al.				
	5,260,943	11/1993	Comroe et al.				
	5,260,967	11/1993	Schilling				
	5,280,472	01/1994	Gilhousen et al.				
	5,289,499	02/1994	Weerackody				
	5,289,527	02/1994	Tiedemann, Jr.				
	5,293,645	03/1994	Sood et al.**				
	5,305,353	04/1994	Weerackody				
	5,321,696	04/1994	Buchholz et al.				
	5,323,384	06/1994	Norwood				
	5,345,467	09/1994	Lomp et al.				
	5,347,535	09/1994	Karasawa et al.				
	5,365,516	11/1994	Jandrell				
	5,367,539	11/1994	Copley				
	5,371,734	12/1994	Fischer				
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	5,373,502	12/1994	Turban				
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/RW/	5,430,769	07/1995	Patsiokas et al.				
	5,442,625	08/1995	Gitlin et al.				
*	5,479,448	12/1995	Seshadri				
*	5,481,533	1/1996	Honig et al.				
	5,483,244	01/1996	Grube et al.				
	5,483,668	01/1996	Malkamaki et al.				
*	5,506,863	4/9/1996	Meidan et al.				
	5,513,176	04/1996	Dean et al.				
	5,533,011	07/1996	Dean et al.				
	5,533,013	07/1996	Leppanen				
*	5,553,076	9/3/1996	Behtash et al.				
	5,584,057	12/1996	Dent				
	5,625,876	04/1997	Gilhousen et al.				
	5,684,793	11/1997	Kiema et al.				
	5,748,669	05/1998	Yada				
*	5,761,196	6/2/1998	Ayerst et al.				
	5,781,541	07/1998	Schnieder				
*	5,283,767	02/1994	McCoy				
*	5,247,356	09/1993	Ciampa				
*	5,235,633	08/1993	Nass et al.				
*	5,227,802	07/1993	Pullman				
*	5,214,789	05/1993	George				
*	5,124,915	06/1992	Krenzel				
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							YES	NO
/RW/	*	H02-3007	01/1990	JP			X	
	*	S63-286027	11/22/1988	JP			X	
	*	H03-177669	08/1991	JP			X	
	*	H06-97914	09/1991	JP			X	
	*	H02-302133	06/1992	JP			X	
	*	S53-109328	08/1978	JP			X	
	*	H3-235077	10/1991	JP				
	*	H1-314443	12/1989	JP				
		92/10890	06/1992	WO				
		93/06669	04/1993	WO				
		0528090	02/1993	EP				
		2237706	05/1991	GB				
		2259430	03/1993	GB				
↓		S63-065723	09/1989	JP			X	

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/RW/	Edited by William C. Jakes, Jr., "Microwave Mobile Communications," Bell Telephone Laboratories, North Andover, MA, pgs. 309-323 and 535-541, 1974.
↓	Kavehrad et al., "Direct-Sequence Spread Spectrum with DPSK Modulation and Diversity for Indoor Wireless Communications," IEEE, pgs. 224-236, 1987.
↓	Pickholtz et al., "Field Tests Designed to Demonstrate Increased Spectral Efficiency for Personal Communications," IEEE Globcom, pgs. 878-882, 1991.
↓	Schilling et al., "Spread Spectrum for Commercial Communications," IEEE Communications Magazine, Vol. 29, Issue 4, pgs. 66-79, April 1991.
↓	Schilling et al., "PCN Field Test Experiments Using Broadband-CDMA," IEEE, pgs. 321-324, December 1991.

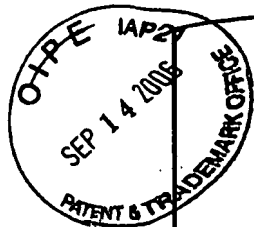
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/RW/		Kauffman et al., "Digital Spread-Spectrum Multipath-Diversity Receiver for Indoor Communications," IEEE, pgs. 1038-1041, 1992.	
		Esmailzadeh et al., "Direct Sequence Spread Spectrum Communication in Selection Diversity Channels by Time Division Duplex Technique," IEEE, pgs. 345-348, 1992.	
		Jack H. Winters, The Diversity Gain Of Transmit Diversity In Wireless Systems With Rayleigh Fading, New Orleans, May 1, 1994, New York, IEEE, US, pgs. 1121-1125.	
		Ghassmzadeh et al., "Indoor Propagation and Fading Characterization of Spread Spectrum Signal at 2 GHz," IEEE, pgs. 56-60, 1992.	
		Erceg et al., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, June 1992.	
		Whang et al., Performance Evaluation of a Direct-Sequence Spread-Spectrum Multiple-Access with Microscopic and Macroscopic Diversity in Mobile Radio Environment, IEEE, pgs. 803-806, 1993.	
		Seshadri et al., "Two Signaling Schemes For Improving The Error Performance Of Frequency-Division-Duplex (FDD) Transmission Systems Using Transmitter Antenna Diversity," Secaucus, NJ, New York, IEEE, US, pgs 508-511, May 18, 1993.	
		Seshadri et al., "Advanced Techniques For Modulation, Error Correction, Channel Equalization, And Diversity," AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, pgs. 48-63, July 1, 1993.	
		"Ultraphone, System Description GP110," InterDigital Communications Corporation, pgs. 1-17, October 1993.	
		"Ultraphone, System Technical Specification GP130, Interdigital Communications Corporation, pgs. 1-12, January 1994.	
		Blanz et al., "Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, May 1994.	
		Esmailzadeh et al., "Quasi-Synchronous Time Division Duplex CDMA", IEEE, pgs. 1637-1641, 1994.	
		Azad et al., "Multirate Spread Spectrum Direct Sequence CDMA Techniques", The Institution of Electrical Engineers, 1994, pp. 4/1-4/5.	
		"Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System", TIA/EIA/IS-95-A, TIA Interim Standard, May 1995	
		Seshadri et al., Advances Techniques For Modulation, Error Correction, Channel Equalization, And Diversity, AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, July 1, 1993, pgs. 48-63	
		Naguir et al., "Performance of CDMA Cellular Networks With Base-Station Antenna Arrays: The Downlink", IEEE Internal Conference on Communications, May 1994, Vol. 2, pgs. 795-799.	
↓		Gerlach et al., "Base Station Transmitter Antenna Arrays With Mobile to Base Feedback", IEEE 1993 Conference Record of the Twenty-Seventh Asilomar Conference on Signals, Systems, and Computers, November 1993, Vol. 2, pgs. 1432-1436.	
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I-1-0065.10USSERIAL NO.  
10/663,240APPLICANT  
Bolgiano et al.FILING DATE  
September 16, 2003GROUP  
2661

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RW/	4,081,748	03/1978	Batz			
	4,099,121	07/1978	Fang			
	4,128,809	12/1978	Kage			
	4,426,712	01/1984	Gorski-Popiel			
	4,530,087	07/1985	Yamamoto			
	4,599,734	07/1986	Yamamoto			
	4,644,351	02/1987	Zabarshy			
	4,675,863	06/1987	Paneth et al.			
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	5,046,066	09/1991	Messenger			
	5,058,200	10/1991	Dornstetter et al.			
	5,081,643	01/1992	Schilling			
	5,097,484	03/1992	Akaiwa			
	5,101,501	03/1992	Gilhousen et al.			
	5,103,459	04/1992	Gilhousen et al.			
	5,109,390	04/1992	Gilhousen et al.			
	5,155,689	10/1992	Wortham			
	5,166,951	11/1992	Schilling			
	5,203,018	04/1993	Hilrose			
	5,208,756	05/1993	Song			
	5,218,367	06/1993	Sheffer et al.			
	5,218,618	06/1993	Sagey			
V	5,193,101	09/1993	McDonald et al.			

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/RW/		5,223,844	06/1993	Mansell et al.			
		5,260,943	11/1993	Comroe et al.			
		5,260,967	11/1993	Schilling			
		5,280,472	01/1994	Gilhousen et al.			
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		5,289,527	02/1994	Tiedemann, Jr.			
		5,293,645	03/1994	Sood et al.**			
		5,305,353	04/1994	Weerackody			
		5,321,696	04/1994	Buchholz et al.			
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		5,347,535	09/1994	Karasawa et al.			
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		5,430,769	07/1995	Patsiokas et al.			
		5,479,488	12/1995	Seshadri			
		5,483,244	01/1996	Grube et al.			
		5,483,668	01/1996	Malkamaki et al.			
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		5,533,013	07/1996	Leppanen			
		5,584,057	12/1996	Dent			
		5,614,876	03/1997	Bolgiano et al.			
✓		5,625,876	04/1997	Gilhousen et al.			

\*\*corresponds to Japanese Application H05-211470

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	<p>FILING DATE</p> <p>September 16, 2003</p>	<p>GROUP</p> <p>2661</p>

## U.S. PATENT DOCUMENTS

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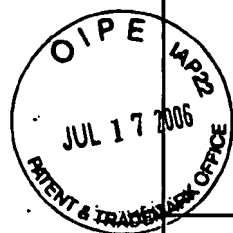
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/RW/		0528090	02/1993	EP				
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		H02-3007	01/1990	JP			X	
		S63-286027	05/1990	JP			X	
	*	H03-177669	08/1991	JP			X	
		H06-97914	09/1991	JP			X	
	*	H01-070286	03/1993	JP			X	
		H02-302133	06/1992	JP			X	
		S53-109328	08/1978	JP			X	
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		Pickholtz et al., "Field Tests Designed to Demonstrate Increased Spectral Efficiency for Personal Communications," IEEE Globcom, pgs. 878-882, 1991.						
		Schilling et al., "Spread Spectrum for Commercial Communications," IEEE Communications Magazine, Vol. 29, Issue 4, pgs. 66-79, April 1991.						
		Schilling et al., "PCN Field Test Experiments Using Broadband-CDMA," IEEE, pgs. 321-324, December 1991.						
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		Esmailzadeh et al., "Direct Sequence Spread Spectrum Communication in Selection Diversity Channels by Time Division Duplex Technique," IEEE, pgs. 345-348, 1992.						
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		Ghassmzadeh et al., "Indoor Propagation and Fading Characterization of Spread Spectrum Signal at 2 GHz," IEEE, pgs. 56-60, 1992.	
		Erceg et al., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, June 1992.	
		Whang et al., Performance Evaluation of a Direct-Sequence Spread-Spectrum Multiple-Access with Microscopic and Macroscopic Diversity in Mobile Radio Environment, IEEE, pgs. 803-806, 1993.	
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		"Ultraphone, System Technical Specification GP130, Interdigital Communications Corporation, pgs. 1-12, January 1994.	
		Blanz et al., "Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, May 1994.	
		Esmailzadeh et al., "Quasi-Synchronous Time Division Duplex CDMA", IEEE, pgs. 1637-1641, 1994.	
		Azad et al., "Multirate Spread Spectrum Direct Sequence CDMA Techniques", The Institution of Electrical Engineers, 1994, pp. 4/1-4/5.	
		"Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System", TIA/EIA/IS-95-A, TIA Interim Standard, May 1995	
		Seshadri et al., Advances Techniques For Modulation, Error Correction, Channel Equalization, And Diversity, AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, July 1, 1993, pgs. 48-63	
		Naguir et al., "Performance of CDMA Cellular Networks With Base-Station Antenna Arrays: The Downlink", IEEE Internal Conference on Communications, May 1994, Vol. 2, pgs. 795-799.	
		Gerlach et al., "Base Station Transmitter Antenna Arrays With Mobile to Base Feedback", IEEE 1993 Conference Record of the Twenty-Seventh Asilomar Conference on Signals, Systems, and Computers, November 1993, Vol. 2, pgs. 1432-1436.	
✓		Xiang et al., "TDM/CDMA VSAT Network Integrating Voice/Data Service And Its Operation Management," IEEE, pgs. 476-480, 1992.	

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)				APPLICANT Bolgiano et al.			
				FILING DATE September 16, 2003		GROUP 2661	
U.S. PATENT DOCUMENTS							
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/RW/		4,081,748	03/1978	Batz			
		4,099,121	07/1978	Fang			
		4,128,809	12/1978	Kage			
		4,426,712	01/1984	Gorski-Popiel			
		4,530,087	07/1985	Yamamoto			
		4,599,734	07/1986	Yamamoto			
		4,644,351	02/1987	Zabarshy			
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		5,289,527	02/1994	Tiedemann, Jr.			
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		5,347,535	09/1994	Karasawa et al.			
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		5,533,013	07/1996	Leppanen			
		5,584,057	12/1996	Dent			
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/RW/		0528090	02/1993	EP				
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		2259430	03/1993	GB				
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		H02-3007	01/1990	JP			X	
		S63-286027	05/1990	JP			X	
		H06-97914	09/1991	JP			X	
		H02-302133	06/1992	JP			X	
		S53-109328	08/1978	JP			X	
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	Xiang et al., "TDM/CDMA VSAT Network Integrating Voice/Data Service And Its Operation Management," IEEE, pgs. 476-480, 1992.	

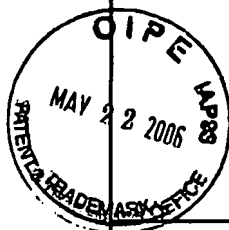
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		Ghassmzadeh et al., "Indoor Propagation and Fading Characterization of Spread Spectrum Signal at 2 GHz," IEEE, pgs. 56-60, 1992.	
		Erceg et al., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, June 1992.	
		Whang et al., Performance Evaluation of a Direct-Sequence Spread-Spectrum Multiple-Access with Microscopic and Macroscopic Diversity in Mobile Radio Environment, IEEE, pgs. 803-806, 1993.	
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		"Ultraphone, System Description GP110," InterDigital Communications Corporation, pgs. 1-17, October 1993.	
		"Ultraphone, System Technical Specification GP130, Interdigital Communications Corporation, pgs. 1-12, January 1994.	
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		Esmailzadeh et al., "Quasi-Synchronous Time Division Duplex CDMA", IEEE, pgs. 1637-1641, 1994.	
		Azad et al., "Multirate Spread Spectrum Direct Sequence CDMA Techniques", The Institution of Electrical Engineers, 1994, pp. 4/1-4/5.	
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Bolgiano et al.FILING DATE  
September 16, 2003GROUP  
2664

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	4,644,351	02/1987	Zabarshy			
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	5,097,484	03/1992	Akaiwa			
	5,101,501	03/1992	Gilhousen et al.			
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	5,109,390	04/1992	Gilhousen et al.			
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/RW/		5,223,844	06/1993	Mansell et al.			
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		5,305,353	04/1994	Weerackody			
		5,321,696	04/1994	Buchholz et al.			
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		5,365,516	11/1994	Jandrell			
		5,367,539	11/1994	Copley			
		5,371,734	12/1994	Fischer			
		5,371,780	12/1994	Amitay			
		5,430,769	07/1995	Patsiokas et al.			
		5,479,488	12/1995	Seshadri			
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							YES	NO
/RW/		0528090	02/1993	EP				
		2237706	05/1991	GB				
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		H02-3007	01/1990	JP			X	
		H06-97914	09/1991	JP			X	
		S53-109328	08/1978	JP			X	
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		5,280,472	01/1994	Gilhousen et al.			
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		5,289,527	02/1994	Tiedemann, Jr.			
		5,305,353	04/1994	Weerackody			
		5,321,696	04/1994	Buchholz et al.			
		5,323,384	06/1994	Norwood			
		5,347,535	09/1994	Karasawa et al.			
		5,365,516	11/1994	Jandrell			
		5,367,539	11/1994	Copley			
		5,371,734	12/1994	Fischer			
		5,371,780	12/1994	Amitay			
		5,430,769	07/1995	Patsiokas et al.			
		5,479,488	12/1995	Seshadri			
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		5,483,668	01/1996	Malkamaki et al.			
		5,513,176	04/1996	Dean et al.			
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		5,533,013	07/1996	Leppanen			
		5,584,057	12/1996	Dent			
		5,614,876	03/1997	Bolgiano et al.			
✓		5,625,876	04/1997	Gilhousen et al.			

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	<b>APPLICANT</b> Bolgiano et al.	
	<b>FILING DATE</b> September 16, 2003	<b>GROUP</b> 2664

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
/RW/		0528090	02/1993	EP				
		2237706	05/1991	GB				
		2259430	03/1993	GB				
		H02-3007	01/1990	JP			X	
		H06-97914	09/1991	JP			X	
		S53-109328	08/1978	JP			X	
		92/10890	06/1992	WO				
✓		93/06669	04/1993	WO				

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/RW/	Edited by William C. Jakes, Jr., "Microwave Mobile Communications," Bell Telephone Laboratories, North Andover, MA, pgs. 309-323 and 535-541, 1974.
	Kavehrad et al., "Direct-Sequence Spread Spectrum with DPSK Modulation and Diversity for Indoor Wireless Communications," IEEE, pgs. 224-236, 1987.
	Pickholtz et al., "Field Tests Designed to Demonstrate Increased Spectral Efficiency for Personal Communications," IEEE Globcom, pgs. 878-882, 1991.
	Schilling et al., "Spread Spectrum for Commercial Communications," IEEE Communications Magazine, Vol. 29, Issue 4, pgs. 66-79, April 1991.
	Schilling et al., "PCN Field Test Experiments Using Broadband-CDMA," IEEE, pgs. 321-324, December 1991.
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	Esmailzadeh et al., "Direct Sequence Spread Spectrum Communication in Selection Diversity Channels by Time Division Duplex Technique," IEEE, pgs. 345-348, 1992.
	Xiang et al., "TDM/CDMA VSAT Network Integrating Voice/Data Service And Its Operation Management," IEEE, pgs. 476-480, 1992.
✓	Jack H. Winters, The Diversity Gain Of Transmit Diversity In Wireless Systems With Rayleigh Fading, New Orleans, May 1, 1994, New York, IEEE, US, pgs. 1121-1125.

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/RW/		Ghassmzadeh et al., "Indoor Propagation and Fading Characterization of Spread Spectrum Signal at 2 GHz," IEEE, pgs. 56-60, 1992.	
		Erceg et al., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, June 1992.	
		Whang et al., Performance Evaluation of a Direct-Sequence Spread-Spectrum Multiple-Access with Microscopic and Macroscopic Diversity in Mobile Radio Environment, IEEE, pgs. 803-806, 1993.	
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		Seshadri et al., "Advanced Techniques For Modulation, Error Correction, Channel Equalization, And Diversity," AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, pgs. 48-63, July 1, 1993.	
		"Ultraphone, System Description GP110," InterDigital Communications Corporation, pgs. 1-17, October 1993.	
		"Ultraphone, System Technical Specification GP130, Interdigital Communications Corporation, pgs. 1-12, January 1994.	
		Blanz et al., "Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, May 1994.	
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		Seshadri et al., Advances Techniques For Modulation, Error Correction, Channel Equalization, And Diversity, AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, July 1, 1993, pgs. 48-63	

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/RW/	CG	4	7	9	9	2	5	2	01/1989	Eizenhoffer et al.				
/RW/	CH	5	3	4	7	5	3	5	09/1994	Karasawa et al.				
/RW/	CI	5	6	1	4	8	7	6	03/1997	Bolgiano et al.				
/RW/	CJ	5	6	2	5	8	7	6	04/1997	Gilhausen et al.				
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/RW/	CM	2	2	5	9	4	3	0	03/1993	United Kingdom				
/RW/	CN	9	3	0	6	6	6	9	04/1993	PCT				
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/RW/	CQ	Pickholtz et al., "Field Tests Designed to Demonstrate Increased Spectral Efficiency for Personal Communications," IEEE Globcom, pgs. 878-882, 1991.												
/RW/	CR	Schilling et al., "Spread Spectrum for Commercial Communications," IEEE Communications Magazine, Vol. 29, Issue 4, pgs. 66-79, April 1991.												
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	CX	Erceg et al., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, June 1992.					
	CY	Whang et al., Performance Evaluation of a Direct-Sequence Spread-Spectrum Multiple-Access with Microscopic and Macroscopic Diversity in Mobile Radio Environment, IEEE, pgs. 803-806, 1993.					
	CZ	Seshadri et al., "Two Signaling Schemes For Improving The Error Performance Of Frequency-Division-Duplex (FDD) Transmission Systems Using Transmitter Antenna Diversity," Secaucus, NJ, New York, IEEE, US, pgs 508-511, May 18, 1993.					
	DA	Seshadri et al., "Advanced Techniques For Modulation, Error Correction, Channel Equalization, And Diversity," AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, pgs. 48-63, July 1, 1993.					
	DB	"Ultraphone, System Description GP110," InterDigital Communications Corporation, pgs. 1-17, October 1993.					
	DC	Esmailzadeh et al., "Time Division Duplex Transmission of Direct Sequence Spread Spectrum Signals in Multipath Channels," IEEE, pgs. 1572-1576, 1994.					
	DD	"Ultraphone, System Technical Specification GP130, Interdigital Communications Corporation, pgs. 1-12, January 1994.					
	DE	Jack H. Winters, "The Diversity Gain Of Transmit Diversity In Wireless Systems With Rayleigh Fading," New Orleans, New York, IEEE, US, pgs. 1121-1125, May 1, 1994.					
	DF	Blanz et al., "Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, May 1994.					
✓	DG	Esmailzadeh et al., "Quasi-Synchronous Time Division Duplex CDMA, IEEE, pgs. 1637-1641, 1994.					
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	FILING DATE September 16, 2003	GROUP 2661

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RW	4,081,748	03/1978	Batz			
	4,099,121	07/1978	Fang			
	4,128,809	12/1978	Kage			
	4,426,712	01/1984	Gorski-Popiel			
	4,530,087	07/1985	Yamamoto			
	4,599,734	07/1986	Yamamoto			
	4,644,351	02/1987	Zabarshy			
	4,675,863	06/1987	Paneth et al.			
	4,780,885	10/1988	Paul et al.			
	4,799,252	01/1989	Eizenhoffer et al.			
	4,901,307	02/1990	Gilhousen et al.			
	5,043,736	08/1991	Darnell et al.			
	5,046,066	09/1991	Messenger			
	5,058,200	10/1991	Dornstetter et al.			
	5,081,643	01/1992	Schilling			
	5,101,501	03/1992	Gilhousen et al.			
	5,103,459	04/1992	Gilhousen et al.			
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	5,097,484	09/1992	Akaiwa			
	5,155,689	10/1992	Wortham			
	5,166,951	11/1992	Schilling			
	5,203,018	04/1993	Hilrose			
	5,208,756	05/1993	Song			
	5,218,367	06/1993	Sheffer et al.			
	5,218,618	06/1993	Sagey			
✓	5,193,101	09/1993	McDonald et al.			

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/RW/		5,223,844	06/1993	Mansell et al.			
		5,260,943	11/1993	Comroe et al.			
		5,260,967	11/1993	Schilling			
		5,280,472	01/1994	Gilhousen et al.			
		5,289,499	02/1994	Weerackody			
		5,289,527	02/1994	Tiedemann, Jr.			
		5,289,527	02/1994	Tiedemann, Jr.			
		5,321,696	04/1994	Buchholz et al.			
		5,305,353	04/1994	Weerackody			
		5,323,384	06/1994	Norwood			
		5,347,535	09/1994	Karasawa et al.			
		5,365,516	11/1994	Jandrell			
		5,367,539	11/1994	Copley			
		5,371,734	12/1994	Fischer			
		5,371,780	12/1994	Amitay			
		5,430,769	07/1995	Patsiokas et al.			
		5,479,488	12/1995	Seshadri			
		5,483,244	01/1996	Grube et al.			
		5,483,668	01/1996	Malkamaki et al.			
		5,513,176	04/1996	Dean et al.			
		5,533,011	07/1996	Dean et al.			
		5,533,013	07/1996	Leppanen			
		5,584,057	12/1996	Dent			
		5,614,876	03/1997	Bolgiano et al.			
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/RW/		2237706	05/1991	GB			
		0528090	02/1993	EP			
		2259430	03/1993	GB			
↓		9306669	04/1993	PCT			
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		Seshadri et al., "Advanced Techniques For Modulation, Error Correction, Channel Equalization, And Diversity," AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, pgs. 48-63, July 1, 1993.	
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		Jack H. Winters, "The Diversity Gain Of Transmit Diversity In Wireless Systems With Rayleigh Fading," New Orleans, New York, IEEE, US, pgs. 1121-1125, May 1, 1994.	
		Blanz et al., "Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, May 1994.	
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	4,599,734	07/1986	Yamamoto			
	4,644,351	02/1987	Zabarshy			
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	5,260,943	11/1993	Comroe et al.				
	5,260,967	11/1993	Schilling				
	5,280,472	01/1994	Gilhousen et al.				
	5,289,499	02/1994	Weerackody				
	5,289,527	02/1994	Tiedemann, Jr.				
	5,289,527	02/1994	Tiedemann, Jr.				
	5,321,696	04/1994	Buchholz et al.				
	5,305,353	04/1994	Weerackody				
	5,323,384	06/1994	Norwood				
	5,347,535	09/1994	Karasawa et al.				
	5,365,516	11/1994	Jandrell				
	5,367,539	11/1994	Copley				
	5,371,734	12/1994	Fischer				
	5,371,780	12/1994	Amitay				
	5,430,769	07/1995	Patsiokas et al.				
	5,479,488	12/1995	Seshadri				
	5,483,244	01/1996	Grube et al.				
	5,483,668	01/1996	Malkamaki et al.				
	5,513,176	04/1996	Dean et al.				
	5,533,011	07/1996	Dean et al.				
	5,533,013	07/1996	Leppanen				
	5,584,057	12/1996	Dent				
	5,614,876	03/1997	Bolgiano et al.				
V	5,625,876	04/1997	Gilhousen et al.				

<b>EXAMINER</b> /Robert Wilson/	<b>DATE CONSIDERED</b> 06/26/2007
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				APPLICANT Bolgiano et al.				
				FILING DATE September 16, 2003		GROUP 2661		
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	*	H06-97914	09/1991	JP			X	
	*	S53-109328	08/1978	JP			X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
/RW/		Edited by William C. Jakes, Jr., "Microwave Mobile Communications," Bell Telephone Laboratories, North Andover, MA, pgs. 309-323 and 535-541, 1974.						
		Kavehrad et al., "Direct-Sequence Spread Spectrum with DPSK Modulation and Diversity for Indoor Wireless Communications," IEEE, pgs. 224-236, 1987.						
		Pickholtz et al., "Field Tests Designed to Demonstrate Increased Spectral Efficiency for Personal Communications," IEEE Globcom, pgs. 878-882, 1991.						
		Schilling et al., "Spread Spectrum for Commercial Communications," IEEE Communications Magazine, Vol. 29, Issue 4, pgs. 66-79, April 1991.						
		Schilling et al., "PCN Field Test Experiments Using Broadband-CDMA," IEEE, pgs. 321-324, December 1991.						
		Kauffman et al., "Digital Spread-Spectrum Multipath-Diversity Receiver for Indoor Communications," IEEE, pgs. 1038-1041, 1992.						
		Esmailzadeh et al., "Direct Sequence Spread Spectrum Communication in Selection Diversity Channels by Time Division Duplex Technique," IEEE, pgs. 345-348, 1992.						
		Xiang et al., "TDM/CDMA VSAT Network Integrating Voice/Data Service And Its Operation Management," IEEE, pgs. 476-480, 1992.						

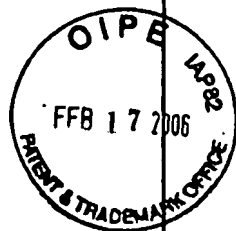
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		APPLICANT Bolgiano et al.	
		FILING DATE September 16, 2003	GROUP 2661
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
/RW/		Jack H. Winters, The Diversity Gain Of Transmit Diversity In Wireless Systems With Rayleigh Fading, New Orleans, May 1, 1994, New York, IEEE, US, pgs. 1121-1125.	
		Seshadri et al., Advances Techniques For Modulation, Error Correction, Channel Equalization, And Diversity, AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, July 1, 1993, pgs. 48-63	
		Ghassmzadeh et al., "Indoor Propagation and Fading Characterization of Spread Spectrum Signal at 2 GHz," IEEE, pgs. 56-60, 1992.	
		Erceg et al., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, June 1992.	
		Whang et al., Performance Evaluation of a Direct-Sequence Spread-Spectrum Multiple-Access with Microscopic and Macroscopic Diversity in Mobile Radio Environment, IEEE, pgs. 803-806, 1993.	
		Seshadri et al., "Two Signaling Schemes For Improving The Error Performance Of Frequency-Division-Duplex (FDD) Transmission Systems Using Transmitter Antenna Diversity," Secaucus, NJ, New York, IEEE, US, pgs 508-511, May 18, 1993.	
		Seshadri et al., "Advanced Techniques For Modulation, Error Correction, Channel Equalization, And Diversity," AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, pgs. 48-63, July 1, 1993.	
		"Ultraphone, System Description GP110," InterDigital Communications Corporation, pgs. 1-17, October 1993.	
		"Ultraphone, System Technical Specification GP130, Interdigital Communications Corporation, pgs. 1-12, January 1994.	
		Jack H. Winters, "The Diversity Gain Of Transmit Diversity In Wireless Systems With Rayleigh Fading," New Orleans, New York, IEEE, US, pgs. 1121-1125, May 1, 1994.	
		Blanz et al., "Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, May 1994.	
		Esmailzadeh et al., "Quasi-Synchronous Time Division Duplex CDMA, IEEE, pgs. 1637-1641, 1994.	
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				FILING DATE September 16, 2003		GROUP 2664	
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/RW/		4,081,748	03/1978	Batz			
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		4,530,087	07/1985	Yamamoto			
		4,599,734	07/1986	Yamamoto			
		4,644,351	02/1987	Zabarshy			
		4,675,863	06/1987	Paneth et al.			
		4,780,885	10/1988	Paul et al.			
		4,799,252	01/1989	Eizenhoffer et al.			
		4,901,307	02/1990	Gilhousen et al.			
		5,043,736	08/1991	Darnell et al.			
		5,046,066	09/1991	Messenger			
		5,058,200	10/1991	Domstetter et al.			
		5,081,643	01/1992	Schilling			
		5,097,484	03/1992	Akaiwa			
		5,101,501	03/1992	Gilhousen et al.			
		5,103,459	04/1992	Gilhousen et al.			
		5,109,390	04/1992	Gilhousen et al.			
		5,155,689	10/1992	Wortham			
		5,166,951	11/1992	Schilling			
		5,203,018	04/1993	Hilrose			
		5,208,756	05/1993	Song			
		5,218,367	06/1993	Sheffer et al.			
		5,218,618	06/1993	Sagey			
✓		5,193,101	09/1993	McDonald et al.			

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				<b>APPLICANT</b> Bolgiano et al.			
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<b>U.S. PATENT DOCUMENTS</b>							
<b>EXAMINER INITIAL</b>		<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE IF APPROPRIATE</b>
/RW/		5,223,844	06/1993	Mansell et al.			
		5,260,943	11/1993	Comroe et al.			
		5,260,967	11/1993	Schilling			
		5,280,472	01/1994	Gilhousen et al.			
		5,289,499	02/1994	Weerackody			
		5,289,527	02/1994	Tiedemann, Jr.			
		5,305,353	04/1994	Weerackody			
		5,321,696	04/1994	Buchholz et al.			
		5,323,384	06/1994	Norwood			
		5,347,535	09/1994	Karasawa et al.			
		5,365,516	11/1994	Jandrell			
		5,367,539	11/1994	Copley			
		5,371,734	12/1994	Fischer			
		5,371,780	12/1994	Amitay			
		5,430,769	07/1995	Patsiokas et al.			
		5,479,488	12/1995	Seshadri			
		5,483,244	01/1996	Grube et al.			
		5,483,668	01/1996	Malkamaki et al.			
		5,513,176	04/1996	Dean et al.			
		5,533,011	07/1996	Dean et al.			
		5,533,013	07/1996	Leppanen			
		5,584,057	12/1996	Dent			
		5,614,876	03/1997	Bolgiano et al.			
✓		5,625,876	04/1997	Gilhousen et al.			

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				<b>APPLICANT</b> Bolgiano et al.			
				<b>FILING DATE</b> September 16, 2003		<b>GROUP</b> 2664	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
/RW/		0528090	02/1993	EP				
↓		2237706	05/1991	GB				
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		H06-97914	09/1991	JP			X	
		S53-109328	08/1978	JP			X	
↓		93/06669	04/1993	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
/RW/	Edited by William C. Jakes, Jr., "Microwave Mobile Communications," Bell Telephone Laboratories, North Andover, MA, pgs. 309-323 and 535-541, 1974.
↓	Kavehrad et al., "Direct-Sequence Spread Spectrum with DPSK Modulation and Diversity for Indoor Wireless Communications," IEEE, pgs. 224-236, 1987.
↓	Pickholtz et al., "Field Tests Designed to Demonstrate Increased Spectral Efficiency for Personal Communications," IEEE Globcom, pgs. 878-882, 1991.
↓	Schilling et al., "Spread Spectrum for Commercial Communications," IEEE Communications Magazine, Vol. 29, Issue 4, pgs. 66-79, April 1991.
↓	Schilling et al., "PCN Field Test Experiments Using Broadband-CDMA," IEEE, pgs. 321-324, December 1991.
↓	Kauffman et al., "Digital Spread-Spectrum Multipath-Diversity Receiver for Indoor Communications," IEEE, pgs. 1038-1041, 1992.
↓	Esmailzadeh et al., "Direct Sequence Spread Spectrum Communication in Selection Diversity Channels by Time Division Duplex Technique," IEEE, pgs. 345-348, 1992.
↓	Xiang et al., "TDM/CDMA VSAT Network Integrating Voice/Data Service And Its Operation Management," IEEE, pgs. 476-480, 1992.
↓	Jack H. Winters, The Diversity Gain Of Transmit Diversity In Wireless Systems With Rayleigh Fading, New Orleans, May 1, 1994, New York, IEEE, US, pgs. 1121-1125.
↓	Seshadri et al., Advances Techniques For Modulation, Error Correction, Channel Equalization, And Diversity, AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, July 1, 1993, pgs. 48-63

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		FILING DATE September 16, 2003	GROUP 2664
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)			
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/RW		Ghassmzadeh et al., "Indoor Propagation and Fading Characterization of Spread Spectrum Signal at 2 GHz," IEEE, pgs. 56-60, 1992.	
		Erceg et al., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, June 1992.	
		Whang et al., Performance Evaluation of a Direct-Sequence Spread-Spectrum Multiple-Access with Microscopic and Macroscopic Diversity in Mobile Radio Environment, IEEE, pgs. 803-806, 1993.	
		Seshadri et al., "Two Signaling Schemes For Improving The Error Performance Of Frequency-Division-Duplex (FDD) Transmission Systems Using Transmitter Antenna Diversity," Secaucus, NJ, New York, IEEE, US, pgs 508-511, May 18, 1993.	
		Seshadri et al., "Advanced Techniques For Modulation, Error Correction, Channel Equalization, And Diversity," AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, pgs. 48-63, July 1, 1993.	
		"Ultraphone, System Description GP110," InterDigital Communications Corporation, pgs. 1-17, October 1993.	
		"Ultraphone, System Technical Specification GP130, Interdigital Communications Corporation, pgs. 1-12, January 1994.	
		Jack H. Winters, "The Diversity Gain Of Transmit Diversity In Wireless Systems With Rayleigh Fading," New Orleans, New York, IEEE, US, pgs. 1121-1125, May 1, 1994.	
		Blanz et al., "Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, May 1994.	
		Esmailzadeh et al., "Quasi-Synchronous Time Division Duplex CDMA, IEEE, pgs. 1637-1641, 1994.	
	.	Azad et al., "Multirate Spread Spectrum Direct Sequence CDMA Techniques", The Institution of Electrical Engineers, 1994, pp. 4/1-4/5.	
	.	"Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System", TIA/EIA/IS-95-A, TIA Interim Standard, May 1995	

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	AD*	4	4	2	6	7	1	2	01/1984	Gorski-Popiel			
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/RW/	AK*	Seshadri et al., Two Signaling Schemes For Improving The Error Performance Of Frequency-Division-Duplex (FDD) Transmission Systems Using Transmitter Antenna Diversity, Secaucus, NJ, May 18, 1993, New York, IEEE, US, pgs 508-511.
/RW/	AL*	Seshadri et al., Advances Techniques For Modulation, Error Correction, Channel Equalization, And Diversity, AT&T Technical Journal, US, American Telephone and Telegraph Co., New York, Vol. 72, No. 4, July 1, 1993, pgs. 48-63

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	AQ*	5	0	5	8	2	0	0	10/1991	Huang et al.					
	AR*	5	1	2	8	9	2	5	07/1992	Dornstetter et al.					
	AS*	5	0	9	7	4	8	4	03/1992	Akaiwa					
	AT*	5	0	8	1	6	4	3	01/1992	Schilling					
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/RW/	AY*	9	3	0	6	6	6	9	04/1993	PCT				YES	NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>															
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										<b>APPLICANT</b> Bolgiano et al.				
										<b>FILING DATE</b> Not Yet Known				<b>GROUP</b> Not Yet Known
<b>U.S. PATENT DOCUMENTS</b>														
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	BB*	5	1	6	6	9	5	1	11/1992	Schilling				
	BC*	5	1	9	3	1	0	1	03/1993	McDonald et al.				
	BD*	5	2	0	8	7	5	6	05/1993	Song				
	BE*	5	2	1	8	3	6	7	06/1993	Sheffer et al.				
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	BG*	5	2	2	3	8	4	4	06/1993	Mansell et al.				
	BH*	5	2	6	0	9	4	3	11/1993	Comroe et al.				
	BI*	5	2	6	0	9	6	7	11/1993	Schilling				
	BJ*	5	2	0	3	0	1	8	04/1993	Hirose				
V	BK*	5	2	8	9	4	9	9	02/1994	Weerackody				
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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
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<b>FORM PTO-1449</b>  <b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)										<b>ATTY. DOCKET NO.</b> I-1-0065.10US			<b>SERIAL NO</b> Not Yet Known		
										<b>APPLICANT</b> Bolgiano et al.					
										<b>FILING DATE</b> Not Yet Known				<b>GROUP</b> Not Yet Known	
<b>U.S. PATENT DOCUMENTS</b>															
EXAMINER INITIAL	BL*	5	3	0	5	3	5	3	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
/RW/		5	3	0	5	3	5	3	04/1994	Weerackody					
	BM*	5	3	2	1	6	9	6	06/1994	Buchholz et al.					
	BN*	5	3	2	3	3	8	4	06/1994	Norwood					
	BO*	5	3	6	7	5	3	9	11/1994	Copley					
	BP*	5	3	6	5	5	1	6	11/1994	Jandrell					
	BQ*	5	3	7	1	7	3	4	12/1994	Fischer					
	BR*	5	3	7	1	7	8	0	12/1994	Amitay					
	BS*	5	2	8	0	4	7	2	01/1994	Gilhousen et al.					
	BT*	5	2	8	9	5	2	7	02/1994	Tiedemann, Jr.					
	BU*	5	4	3	0	7	6	9	07/1995	Patsiokas et al.					
V	BV*	5	4	7	9	4	8	8	12/1995	Seshadri					
<b>FOREIGN PATENT DOCUMENTS</b>															
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION										
YES	NO														
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>															
<b>EXAMINER</b>  /Robert Wilson/					<b>DATE CONSIDERED</b>  06/26/2007										

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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<b>APPLICANT</b> Bolgiano et al.															
<b>FILING DATE</b> Not Yet Known					<b>GROUP</b> Not Yet Known										

U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RW	BW*	5	5	1	3	1	7	6	04/1996	Dean et al.				
	BX*	5	5	3	3	0	1	1	07/1996	Dean et al.				
	BY*	5	5	3	3	0	1	3	07/1996	Leppanen				
	BZ*	5	4	8	3	2	4	4	01/1996	Grube et al.				
	CA*	5	5	8	4	0	5	7	12/1996	Dent				
	CB*	5	6	6	3	9	9	0	09/1997	Bolgiano et al.				
	CC*	5	6	8	4	7	9	3	11/1997	Kiema et al.				
	CD*	5	7	4	8	6	6	9	05/1998	Yada				
	CE*	5	7	8	1	5	4	1	07/1998	Schneider				
✓	CF*	5	8	5	9	8	7	9	01/1999	Bolgiano et al.				

FOREIGN PATENT DOCUMENTS																
		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
															YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)																
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<b>EXAMINER</b>  /Robert Wilson/	<b>DATE CONSIDERED</b>  06/26/2007
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